Kevin Charles Mulvey

Appl. No.

10/538,685

Examiner

Mark J. Beauchaine

Docket No.

20305-4003

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of accepting of money items, comprising:

generating individual money items signals with a value that is a function of respective items of money under test,

developing an acceptability criterion dependent on a fraud attack

developing for each of the money items under test, a transformed money item signal with a value that is a function of the value of the money item signal and at least one variable parameter that is a function of an the fraud attack acceptability criterion for the money item under test,

making a comparison of the values of the transformed money item signals with a window limit value, and

accepting or rejecting each money item in dependence upon said comparison.

Wherein the transformed money item signal is developed by sealing the money item signal for a money item under test in accordance with an amplification factor determined in dependence on the outcome of a comparison of data based on previously tested money items with two or more rules of a rule based expert system.

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2. (Original) A method according to claim 1 wherein said variable parameter is a function of

history data relating to the values of the money item signals for previously tested money items.

3. (Cancelled) A method according to claim 1 wherein the transformed money item signal is

developed by transforming the money item signal according to the outcome of a rule based

expert system.

4. (Cancelled) A method according to claim 3 wherein the transformed money item signal is

developed by scaling the money item signal for a money item under test in accordance with an

amplification factor determined in dependence on the outcome of a comparison of data based on

previously tested money items with at least one rule.

5. (Cancelled) A method according to claim 4 including two or more of said rules and

including using different amplification factors depending on the outcome of the comparisons for

the rules.

6. (Previously presented) A method according to claim 1 including comparing an average of

data corresponding to the money item signals for previously tested money items with a first limit

value lying within a window delimited by said window limit, and if said average is not within

said first limit, scaling the money item signal for a money item under test in accordance with said

amplification factor.

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7. (Previously presented) A method according to claim 1 including comparing a maximum

value of data corresponding to the values of money item signals for previously tested money

items with a second limit value lying within a window delimited by said window limit, and if

said maximum value is not within said second limit, scaling the money item signal for a money

item under test in accordance with said amplification factor.

8. (Previously presented) A method according to claim 1 wherein the window limit has a

fixed value.

9. (Previously presented) A method according to claim 1 wherein the window limit delimits

a window as deviation relative to a window mean, and including revaluing the money item signal

for a money item relative to the window mean, whereby to produce re-value money item data

and developing the transformed money item signal from said re-valued money item data.

10. (Previously presented) A method according to claim 1 performed in a coin acceptor, and

including varying the transformation of the money item signals in dependence on data received

from a source externally of the acceptor.

11. (Original) A method according to claim 10 wherein the data received from the external

source comprises data indicative that of a fraud attack on other acceptors.

12. (Cancelled) A method according to claim 1 wherein the acceptability criterion

comprises a fraud criterion corresponding to a fraud attack.

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13. (Previously presented) A method according to claim 1 wherein the money items comprise

coins or tokens.

14. (Currently amended) An acceptor for money items, comprising:

sensor circuitry to provide individual money items signals of a value as a function of

respective items of money under test, and

a processor configuration

to develop an acceptability criterion dependent on a fraud attack,

to develop for each of the money items under test, a transformed money item signal as

having a value that is a function of the value of the money item signal and at least one variable

parameter that is a function of fraud attack acceptability criterion for the money item under test,

to make a comparison of the values of the transformed money item signals with a

window limit value, and

to accept or reject each money item in dependence upon said comparison.

Wherein the transformed money item signal is developed by sealing the money item

signal for a money item under test in accordance with an amplification factor determined in

dependence on the outcome of a comparison of data based on previously tested money items

with two or more rules of a rule based expert system.

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15. (Original) A money item acceptor according to claim 14 wherein said variable parameter is a function of history data relating to the values of the money item signals for previously tested money items.

16. (Cancelled) A money item acceptor according to claim 14 wherein the processor configuration is operable to develop the transformed money item signal by transforming the money item signal according to the outcome of a rule based expert system.

17. (Cancelled) A money item acceptor according to claim 16 wherein the processor configuration is operable to develop the transformed money item signal by scaling the money item signal for a money item under test in accordance with an amplification factor determined in dependence on the outcome of a comparison of data based on previously tested money items with at least one rule.

18. (Cancelled) A money item acceptor according to claim 17 including two or more of said rules and wherein the processor configuration is operable to use different amplification factors depending on the outcome of the comparisons for the rules.

19. (Previously presented) A money item acceptor according to claim 14 wherein the processor configuration is operable to compare an average of data corresponding to the money item signals for previously tested money items with a first limit value lying within a window delimited by said window limit, and if said average is not within said first limit, to scale the

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amplification factor.

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money item signal for a money item under test in accordance with said amplification factor.

20. (Previously presented) A money item acceptor according to claim 14 wherein the processor configuration is operable to compare a maximum value of data corresponding to the values of money item signals for previously tested money items with a second limit value lying within a window delimited by said window limit, and if said maximum value is not within said second limit, to scale the money item signal for a money item under test in accordance with said

- 21. (Previously presented) A money item acceptor according to claim 14 wherein the window limit has a fixed value.
- 22. (Previously presented) A money item acceptor according to claim 14 wherein the window limit delimits a window as deviation relative to a window mean, and the processor configuration is operable to re-value the value of a money item signal for a money item relative to the window mean, whereby to produce re-value money item data, and to develop the transformed money item signal from said re-valued money item data.
- 23. (Previously presented) A money item acceptor according to claim 14 wherein the processor configuration is operable to control the transformation of the money item signals in dependence on data received from an external source.

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- 24. (Original) A money item acceptor according to claim 23 wherein the data received from the external source comprises data indicative of a fraud attack on other acceptors.
- 25. (Previously presented) An acceptor according to claim 14 operable to accept coins or tokens.
- 26. (Previously presented) A multi-denomination acceptor according to claim 14.